

**Training Title**

**PROCESS SAFETY & PROCESS SAFETY MANAGEMENT**

**Training Duration**

**5 days**

**Training Venue and Dates**

PE087	Process Safety & Process Safety Management	5	08 – 12 July, 2019	\$6,250	Amsterdam, Netherlands
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**In any of the 5 star hotels. The exact venue will be informed once finalized.**

**Training Fees**

- 6,250 US\$ per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch.

**Training Certificate**

**Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.**

**TRAINING DESCRIPTION**

Process safety implies both prevention and mitigation of loss of primary containment. Applying the latest process safety knowledge and experience in a plant saves people’s lives, the environment, reduces down time lost in repairs and increases profit by avoiding deferment and loss of production that occur after a fire or explosion incident.

This training introduces the main topics of process safety and its management elements.

The training helps the attendees operate and maintain the facility/plant in a safe manner and reduce the risk of accidents.

For in-house training, a tailor-made training is available for a specific type of plants (e.g. gas plant, refinery, nuclear, offshore, etc) and using specific operator company practice.

**TRAINING OBJECTIVES**

- Introduce the main terminology used in process safety context.
- Enable the trainees to operate, maintain and support operation of a facility safely.
- Give real examples of incidents and case study.
- Introduce the main hazard and risk assessment techniques and their scope and use.
- Enable the trainees to take the correct decisions to upgrade process safety and protection in the facility.
- Give some insights on safeguards specially safety instrumented systems
- Introduce incident investigation techniques.

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### **WHO SHOULD ATTEND?**

Supervisors, Engineers & Facility/Utility engineers, maintenance Technicians, Operating Personnel

### **TRAINING METHODOLOGY:**

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions, and motivate everybody find the right answers. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Group Work & Practical Exercises
- 20% Videos & General Discussions

### **DAILY OUTLINE**

#### **Day 1-Overview**

- Important terms and definitions
- Examples of real Incidents
- Hazard/Risk Identification and Analysis
- Hazards Associated with Specific equipment

#### **Day 2-Inherent Safety & Hazard Analysis**

- Insights on the design phase and how it affects the plant till its decommissioning
- Inherently Safer Design Methodology
- Pre-Design and Design Phases
- Hazard Analysis Techniques

#### **Day 3- Consequence Analysis, Layout & Risk Assessment**

- Consequence analysis uses and methods
- Consequence analysis principles
- Safety Consideration in Plant Layout and Equipment Spacing
- Risk Assessment terms and uses
- LOPA and SIL assessment uses, rules & applications

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**Day 4- SIS & Incident Investigation**

- Safety Instrumented Systems
- How to conduct Incident investigation

**Day 5-Process Safety Management PSM**

- PSM definition
- PSM Elements
- PS Indicators

**NOTE:**

**Pre & Post Tests will be conducted**

**Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.**



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P.O BOX 45304  
ABU DHABI, U.A.E

T +971 2 6264455  
F +971 2 6275344

[www.definettraining.com](http://www.definettraining.com)